LOH ZHUN YEW

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https://github.com/lohzhunyewcs/

EDUCATION

Monash University Malaysia Malaysia
BSC Computer Science Oct 2017 - June 2020

WORK EXPERIENCE

Shopee Singapore
Software Engineer, Machine Learning, Identity Verificaiton Feb 2022 - Nov 2022

- Developed and maintained Backend OCR API systems for multiple region IC cards to help automate KYC process
- Generated Synthetic data to allow existing OCR system to identify over 2000 chinese characters that were not in the dataset
- Modified existing backend API to improve model upgrade time
- Added data pipeline to make retraining more efficient regardless of framework
- Created evaluation and visualisation tools to improve time used for debugging for model outputs
- Updated dockerfiles to decrease build and deployment time by 90%
- Deployed models to C++ Backends to decrease inference time without increasing memory usage

Revenue Monster
Software Engineer, Machine Learning August 2020 - January 2022

- Trained an OCR system to replace Google Cloud OCR
- Prepared and maintained pipelines to handle dataset for text recognition and detection, object detection and others for various formats
- Identified and fixed data bug that increased model accuracy from 70% to almost 100%
- Trained SOTA object detection to identify key regions in documents to 95% accuracy
- Used semi-supervised learning to create and extract new data.
- Deployed models using Triton and TorchServe to improve API update rate and inference speed by 50%
- Helped deploy and maintain an e-KYC(Know your customer) API system on Alibaba cloud with docker
- Created many dockerfiles to consistently replicate the right environments for software to run in
- Trained NLP and CV models and deployed a backend api to help classify images and its description into food, beverages and others including alcohols
- Refactored backend server to use a newer technology that peforms faster and fixes security vulnerabilities

Monash University Malaysia Malaysia
Teaching Assistant August 2020 - Present

- Teaching Assistant for Object Oriented Programming in 2020(Nominated for a Teaching Award), Intro to Comp Sci in 2021

WiseAI Malaysia
AI Intern Dec 2019 - Feb 2020

- Remade their existing Data Labelling tool for Object Detection, OCR and Semantic Segmentation using Flask, Javascript and enhanced it to improve data labelling speed by at least double
- Trained Semantic Segmentation Neural Net using real world data with Tensorflow and Pytorch to replace their current system to extract identity cards

SKILLS

Programming Languages:	Java, C++, Python, SQL, Javascript, HTML, CSS, Rust, Go
Relevant Monash Completed Courses:	Algorithms and Data Structures, Advanced Algorithm and Data Structures
Relevant Monash Completed Courses:	Databases, Parallel Computing, Big Data Management and Processing
Certificates:	Certified iOS Developer(2014)
Frameworks:	Flask, Django, ReactJS, Spark, Kafka, MongoDB, Triton, Torchserve
Libraries:	Tensorflow, SciKit, Pytorch, Paddlepaddle
Relevant Tools:	Docker, Alibaba Cloud instances
Relevant Online Courses:	Andrew Ng's Machine Learning, Deep Learning. CS50 Web development
Relevant Online Courses:	Stanford's NLP with Deep Learning